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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/675,859	09/30/2003	Kelly Statham	0153/90550	1877
24628 7590 06/01/2007 WELSH & KATZ, LTD		EXAM	EXAMINER	
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CHICAGO, IL			ART UNIT	PAPER NUMBER
			2615	
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			MAIL DATE	DELIVERY MODE
			06/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	•	Application No.	Applicant(s)			
Office Action Summary						
		10/675,859	STATHAM ET AL.			
		Examiner	Art Unit			
	The MAILING DATE of this communication app	Lun-See Lao	2615			
Period fe		rears on the cover sheet with the	· correspondence address			
WHIC - Exte after - If NO - Failu Any	CHEVER IS LONGER, FROM THE MAILING DATE OF THE	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the country of the count	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).			
Status		•				
1)⊠	Responsive to communication(s) filed on 30 Second	eptember 2003.				
2a) <u></u>	This action is FINAL . 2b)⊠ This action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.			
Disposit	ion of Claims					
4)⊠	4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.					
5)□	4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed.					
•	Claim(s) <u>1-16</u> is/are rejected.					
· · ·	Claim(s) is/are objected to.					
·	Claim(s) are subject to restriction and/o	r election requirement.	·			
Applicat	ion Papers					
9)[]	The specification is objected to by the Examine	r.				
-	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
•	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is o	objected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	ce Action or form PTO-152.			
Priority	under 35 U.S.C. § 119					
· —	Acknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority document		a)-(d) or (f).			
	2. Certified copies of the priority document		ation No			
	3. Copies of the certified copies of the prior					
	application from the International Bureau	•	To a manage			
* :	See the attached detailed Office action for a list		ved.			
Attachmer	nt(s)					
1) 🔀 Notic	ce of References Cited (PTO-892)	4) 🔲 Interview Summa				
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail 5) Notice of Informa	Date I Patent Application			
	er No(s)/Mail Date <u>10-11-2005</u> .	6) Other:				

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DETAILED ACTION

Introduction

1. This action is response to the 10/675,859 application filed on 09-30-2003. Claims 1-16 are pending.

Drawings

2. The drawings are objected to because figures 7-8 are handwriting, formal drawings are required. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 102

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3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-5 and 7, 9, 11 are rejected under 35 U.S.C. 102(e) as being anticipated by Shiraishi (US PAT. 6,954,538).

Consider claim 1 Shiraishi teaches a method for remotely controlling (see fig.4) a set of functions related to a wireless audio system from a remote central control, said method comprising the steps of:

providing an audio system (fig.4) that includes a transmitter (104,304) and a receiver (105,305); transmitting data from the transmitter (304) to the receiver (105) of said audio system (see fig.4) and storing said data therein, said data including two or more characteristics regarding said transmitter or the environment in which it is used; establishing a link between the receiver of said wireless audio system (fig.4) and a central control (300 and see col. 7 line 44-col. 8 line 18);

determining (see fig.3) whether or not any problems exist (by test tong) by monitoring said data stored in said receiver from said central control; communicating

from said remote control to said audio system appropriate remedial actions to alleviate any of said problems (see col. 6 line 13-col. 7 line 42).

Consider claims 2-5 Shiraishi teaches that the audio system comprises a wireless audio system (see fig.4 and see col. 7 line 67); and the wireless audio system comprises a wireless microphone system (300, (306) and see col. 7 line 44-67); and the transmitter comprises a handheld (see fig.6 and see col. 8 lines 33-55); and the transmitter comprises a body pack (see fig.6 and see col. 8 lines 33-55).

Consider claims 7 and 9, Shiraishi teaches that the data comprises data regarding characteristics of said transmitter or said receiver that can be monitored but not controlled (see col. 7 line 15-42); and the data comprises data regarding characteristics of said transmitter or said receiver that can be monitored and controlled (see col. 7 line 44-col.8 line 18).

Consider claim 11 Shiraishi teaches that the communicating step includes the step of transmitting replacement data to said receiver that is implemented by said receiver (see fig.4 and col. 7 line 44-col. 8 line 18).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shiraishi (US PAT. 6,954,538) in view of Agashe (US PAT. US 2003/0190924).

Consider claim 6 Shiraishi fails to teach that the receiver comprises a diversity receiver.

However, Agashe teaches teach that the receiver comprises a diversity receiver (see page 1 [0006]).

Therefore, it would have been obvious to one of the ordinary skill in the at the time the invention was made to combine the teaching of Agashe into Shiraishi so that remote control and audio system could have been increased the capacity of the communication system.

7. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shiraishi (US PAT. 6,954,538) in view of Hameleers (US PAT. 6,920,134).

Consider claim 8, Shiraishi teaches that the data is selected from a group consisting receiver RF / level, receiver AF level (the electromagnetic wave or infrared radiation should have receiver RF / level, receiver AF level and see col. 5 line 22-40); but Shiraishi does not explicitly teach that the data is selected from a group consisting receiver internet protocol address, receiver link address.

However, Hameleers teaches that the data is selected from a group consisting receiver internet protocol address, receiver link address (see col. 4 line 6-20).

Therefore, it would have been obvious to one of the ordinary skill in the at the time the invention was made to combine the teaching of Casais into Shiraishi to provided the network of the communication system to efficiently handles transfer data.

8. Claims 10 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shiraishi (US PAT. 6,954,538) in view of Fukui (US PAT. 4,197,498).

Consider claim 10 Shiraishi teaches that the transmitting data from the transmitter is selected from a group consisting of: receiver name, receiver frequency, receiver squelch level, receiver meter hold (see fig.6), receiver antenna power, receiver mute, default display on receiver state, receiver lock condition, receiver load present, and receiver save preset (see fig.6 and col. 6 line13-54); but Shiraishi does not explicitly teach that the transmitting data from the transmitter is selected from a group consisting of: receiver squelch level.

However, Fukui teaches that the transmitting data from the transmitter is selected from a group consisting of: receiver squelch level (see fig.1 and see col. 2 line 3-29).

Therefore, it would have been obvious to one of the ordinary skill in the at the time the invention was made to combine the teaching of Fukui into Shiraishi to provide higher fidelity output audio sound signal with squelch level control.

Consider claim 12 it is essentially similar to claim 10 and is rejected for the reason stated above apropos to claim 10.

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Consider claim 13 Shiraishi does not explicitly teach that the receiver of said audio system comprises a master receiver and two or more slave receivers that are operatively coupled to said master receiver, each of said slave receivers including a slave transmitter associated therewith.

However, Casais teaches that the receiver of said audio system (see fig. 1 (10)) comprises a master receiver (52) and two or more slave receivers (54) that are operatively coupled to said master receiver (52), each of said slave receivers (12) including a slave transmitter associated therewith (see col. 4 line 40- col. 6 line 48).

Therefore, it would have been obvious to one of the ordinary skill in the at the time the invention was made to combine the teaching of Casais into Shiraishi to provided more independent of the communication system for the market demand.

Consider claim 14 casais teaches that the transmitting step (see fig.1 (10)) comprises the step of transmitting data from the slave transmitter (12) associated with one of said slave receivers to said master receiver (52), and transmitting said data from said master receiver to said central control (42 and see col. 4 line 40- col. 6 line 48).

10. Claims 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shiraishi (US PAT. 6,954,538) in view of Chang (US PAT. 6,337,913).

Consider claim 15 Shirashi teaches that the said transmitting step (see fig.4) comprises the steps of combining data associated with said transmitter with a tone signal (fig.3), mixing said combined data/ tone signal with an audio signal, and transmitting said combined data/ tone/audio signal to said receiver (see col. 6 line 13-

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col. 7 line 42); but Shirashi does not explicitly teach that the said transmitting step comprises the steps of combining data associated with said transmitter with a pilot tone signal, mixing said combined data/pilot tone signal with an audio signal, and transmitting

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said combined data/pilot tone/audio signal to said receiver.

However, Chang teaches that the said transmitting step (see fig.4) comprises the

steps of combining data associated with said transmitter with a pilot tone signal (33),

mixing said combined data/pilot tone signal with an audio signal, and transmitting said

combined data/pilot tone/audio signal to said receiver (see col. 3 line 63-col. 4 line 12).

Therefore, it would have been obvious to one of the ordinary skill in the at the time the

invention was made to combine the teaching of Chang into Shiraishi to provided more

design choices such as a test tong or pilot tong to the designer.

Consider claim 15 Chang teaches that the pilot tone signal is at approximately 32 kHz

(see abstract).

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Suzuki (US PAT. 7,054,914) is cited to show other related method and apparatus for remote control of an audio source such as a wireless

microphone system.

12. Any response to this action should be mailed to:

Mail Stop (explanation, e.g., Amendment or After-final, etc.)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Facsimile responses should be faxed to:
(571) 273-8300

Hand-delivered responses should be brought to:
Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lao, Lun-See whose telephone number is (571) 272-7501. The examiner can normally be reached on Monday-Friday from 8:00 to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chin Vivian, can be reached on (571) 272-7848.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 whose telephone number is (571) 272-2600.

Lao, Lun-See L. 5.
Patent Examiner
US Patent and Trademark Office
Knox
571-272-7501
Date 05-15-2007

vivian Chin

SUPERVICION PATENT EXAMINER TECHNOLOGY CENTER 2600